

Amendments To the Abstract

Please replace the Abstract with following amended Abstract:

Abstract of the Disclosure

The invention relates to the field of chemistry and relates to radically Radically coupled PTFE polymer compounds ~~that can be used useful~~, for example, as tribo materials, and a method for the production thereof. The object of the invention is to disclose radically Radically coupled PTFE polymer compounds are provided which exhibit improved wear resistances with comparable gliding properties, and furthermore there is provided a simple and efficient method for the production of such compounds. The object is attained through radically Radically coupled PTFE polymer compounds are provided comprising radiation-chemically and/or plasma-chemically modified PTFE powders, on the particle surface of which olefinically unsaturated polymers are chemically radically coupled by a reactive conversion into a melt. The object is further attained through There is also provided a method for producing radically coupled PTFE polymer compounds, in which PTFE powders are reactively converted with reactive perfluoroalkyl-(peroxy) radical centers after a radiation-chemical and/or plasma-chemical modification into a melt with the addition of olefinically unsaturated polymers.